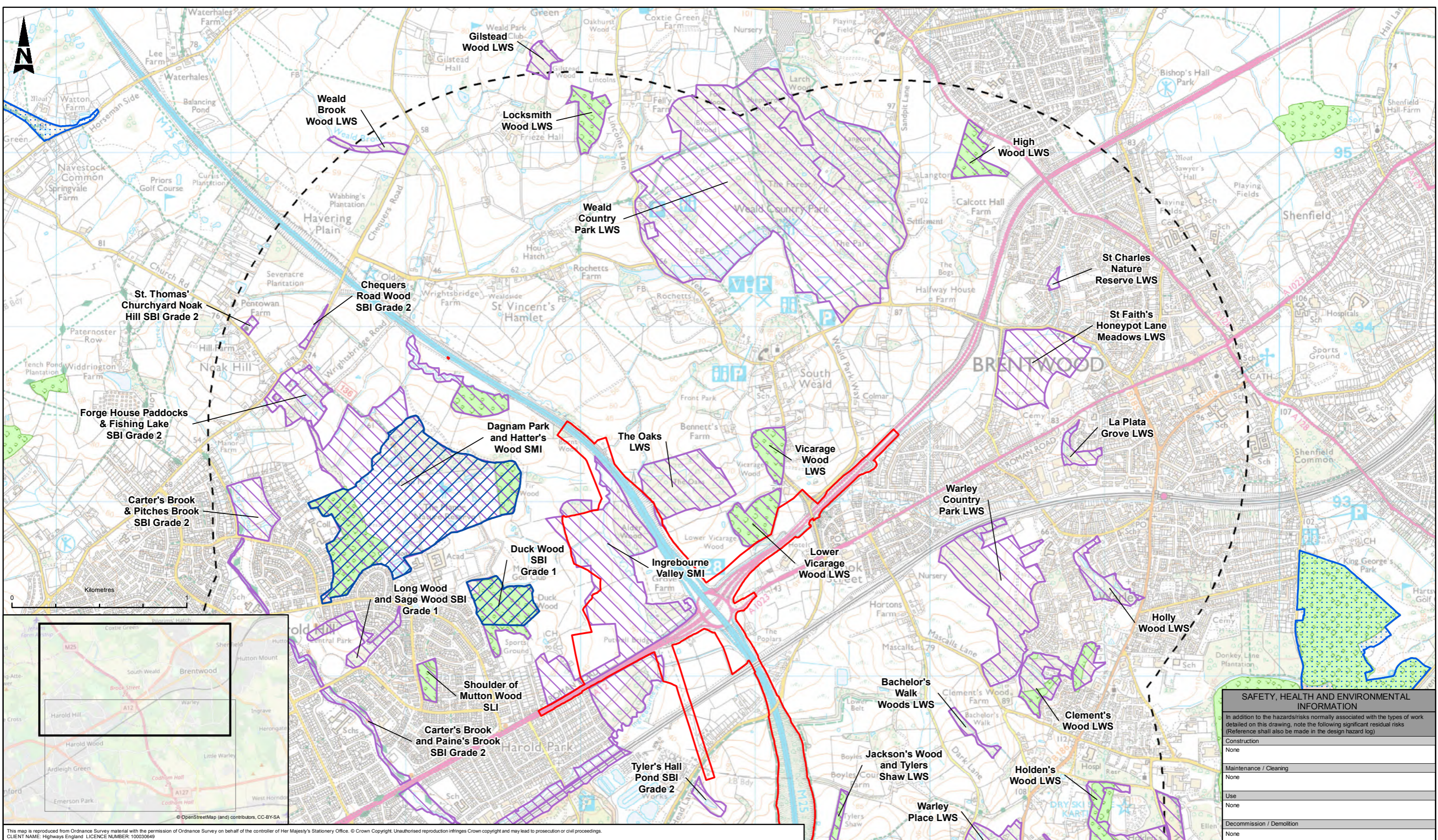


7. Biodiversity

Figure D-1 Biodiversity Designated Sites (2 Sheets)



LEGEND

- Scheme Boundary
- 2km Study Area
- Ancient Woodland
- Sites of Special Scientific Interest (SSSI)
- Local Nature Reserves (LNR)
- Local Wildlife Sites (LWS)

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

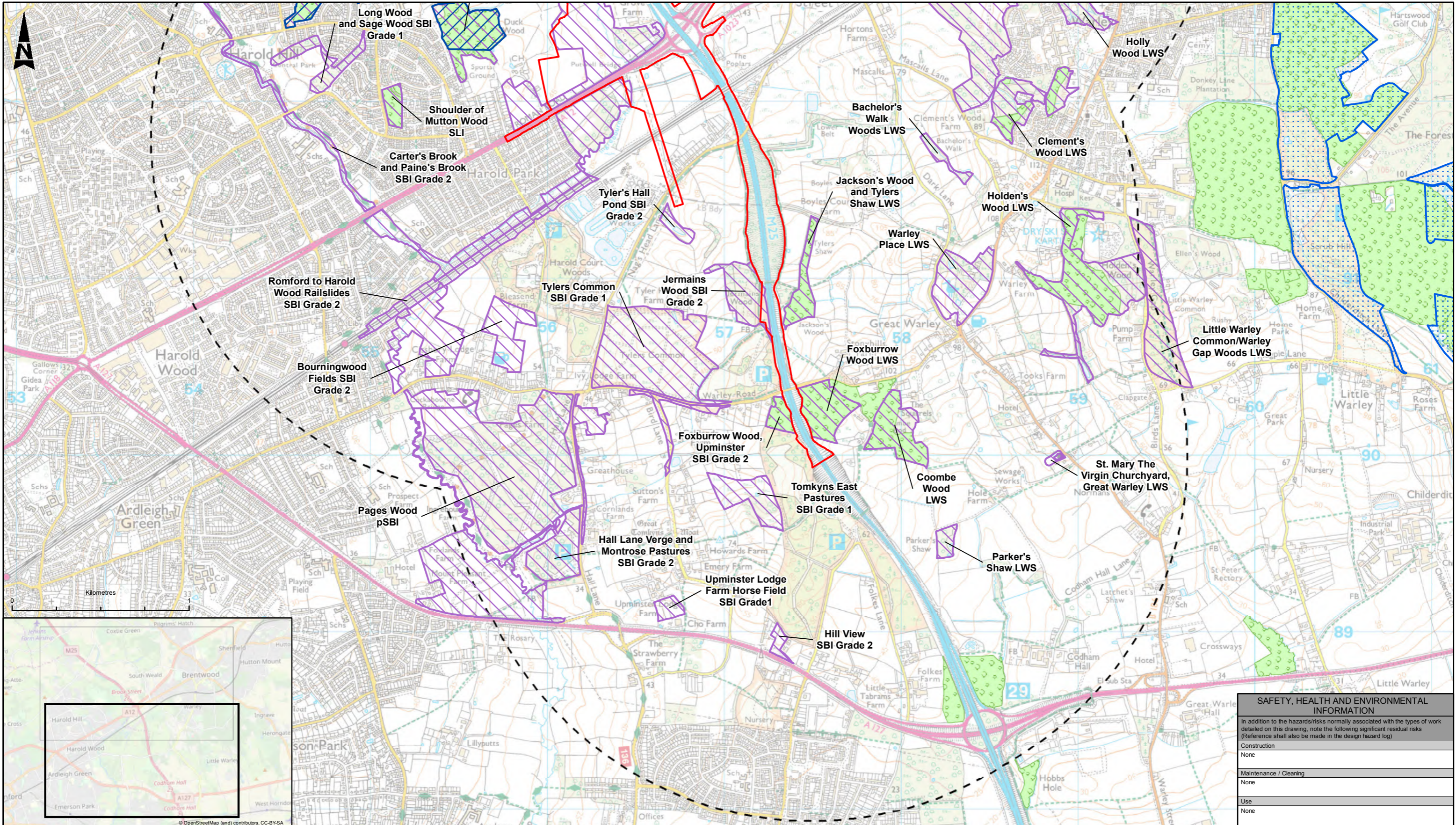
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	PO1	FM	MG	VA	PG	21/11/18

PUBLISHED **A1**

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 Epsom
 Surrey
 KT18 5AL
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Project Title	ROAD IMPROVEMENT PROGRAMME M25 Junction 28
Drawing Title	FIGURE D-1 BIODIVERSITY DESIGNATED SITES SHEET 1 OF 2
Drawing Number	Project: HE551519 - ATK - EBD Originator: XX - GS - GI - 000001 Volume: 1 of 1
Original Size	A3
Scale	1:20,000
Project Ref. No.	---
Sheet	1 of 1
Rev.	P01



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LEGEND

- Scheme Boundary
- 2km Study Area
- Ancient Woodland
- Sites of Special Scientific Interest (SSSI)
- Local Nature Reserves (LNR)
- Local Wildlife Sites (LWS)

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

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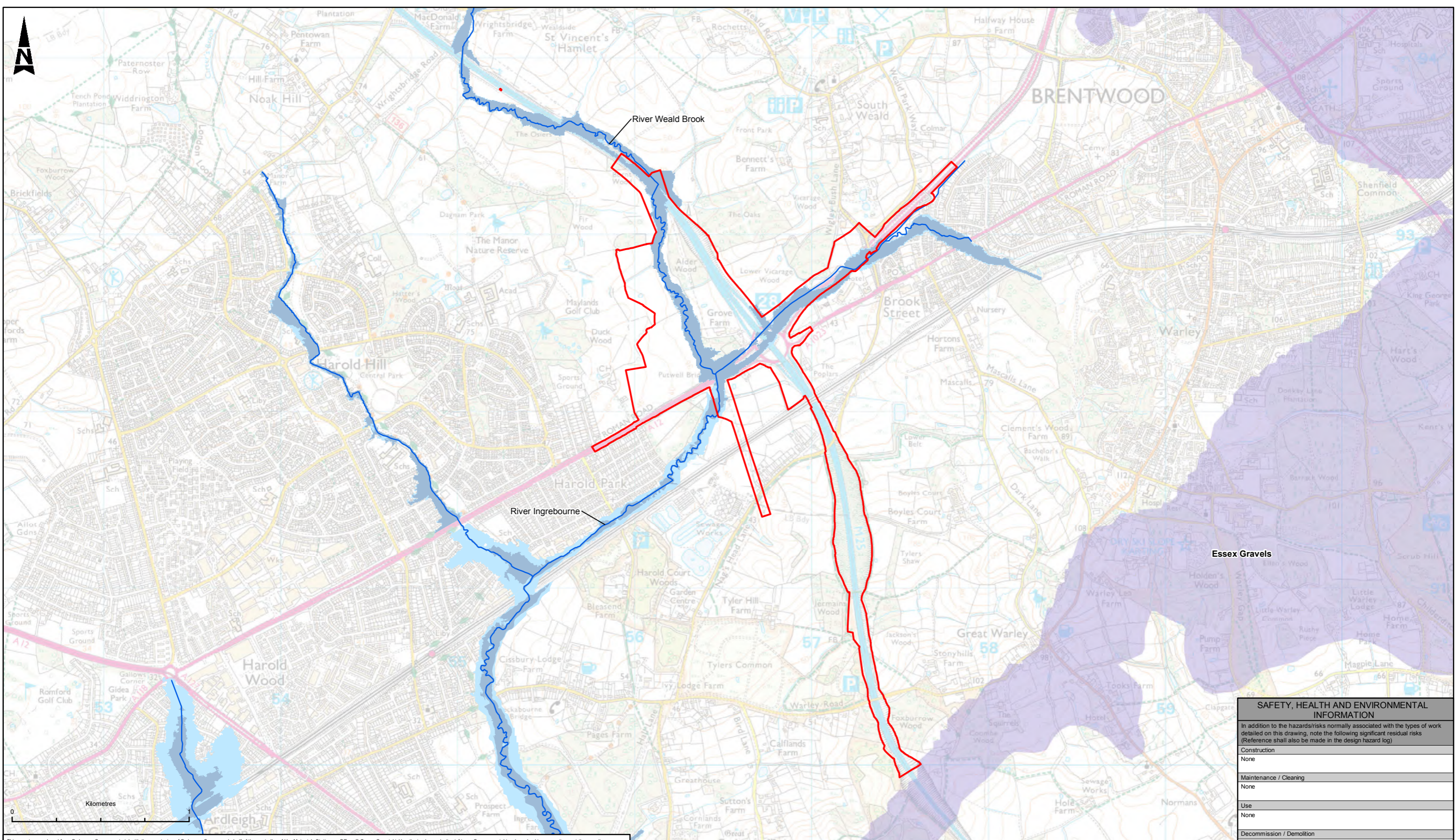
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None
Project Title	ROAD IMPROVEMENT PROGRAMME M25 Junction 28
Drawing Title	FIGURE D-1 BIODIVERSITY DESIGNATED SITES SHEET 2 OF 2
Drawing Number	Project: HE551519 - ATK - EBD Originator: XX - GS - GI - 000002 Volume: ---
Original Size: A3	Scale: 1:20,000 Project Ref. No: --- Sheet: 1 of 1 Rev: P01

8. Road Drainage and the Water Environment

Figure E-1 Surface and Ground Water Bodies



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND

- Scheme Boundary
- River Watercourses
- Flood Zone 3
- Flood Zone 2
- Groundwater Bodies

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Drawing Suitability							
Description							
Description							
Description							
Description							
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Description							
Description							

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Epsom
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Project Title	ROAD IMPROVEMENT PROGRAMME M25 Junction 28		
Drawing Title	FIGURE E-1 WATER ENVIRONMENT		
Drawing Number	Project	Originator	Volume
	HE551519 - ATK - EWE	XX - GS - GI - 000001	
Original Size:	A3	Scale:	1:20,000
	Location	Type	Role
	Ref. No.:	---	Sheet
			1 of 1
			Rev:
			P02

9. Landscape and Visual

Figure F-1 Local Designations

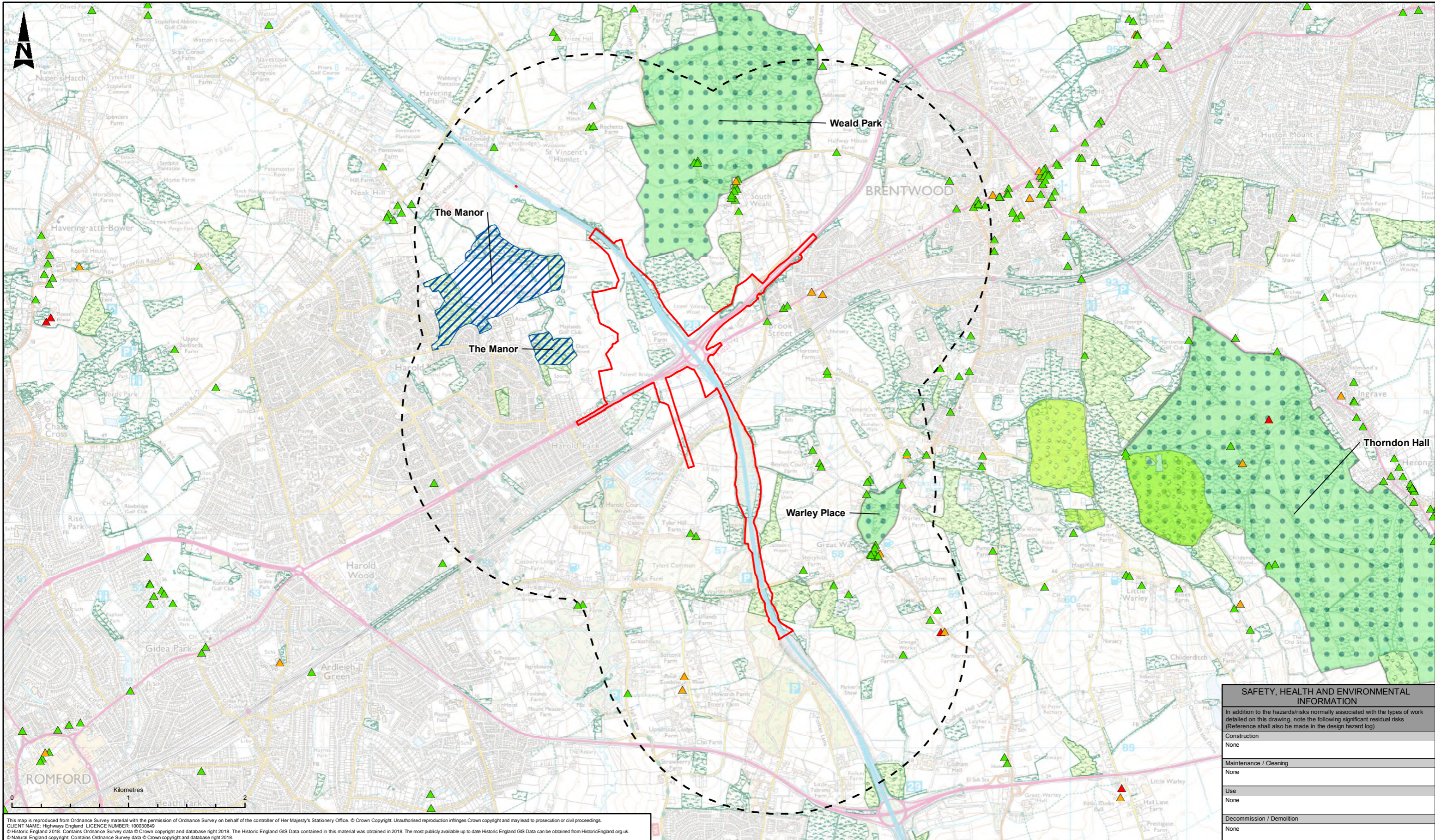
Figure F-2 Landscape Character

Figure F-3 Topography

Figure F-4 Tranquillity

Figure F-5 Viewpoint Location Plan

Figure F-6 Viewpoint Photos (3 Sheets)



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	Scheme Boundary
	1.5km Study Area
	Local Nature Reserves
	Registered Parks and Gardens
	Ancient & Semi-Natural Woodland
	Ancient Replanted Woodland
	Deciduous Woodland

	Listed Building Grade I
	Listed Building Grade II*
	Listed Building Grade II

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

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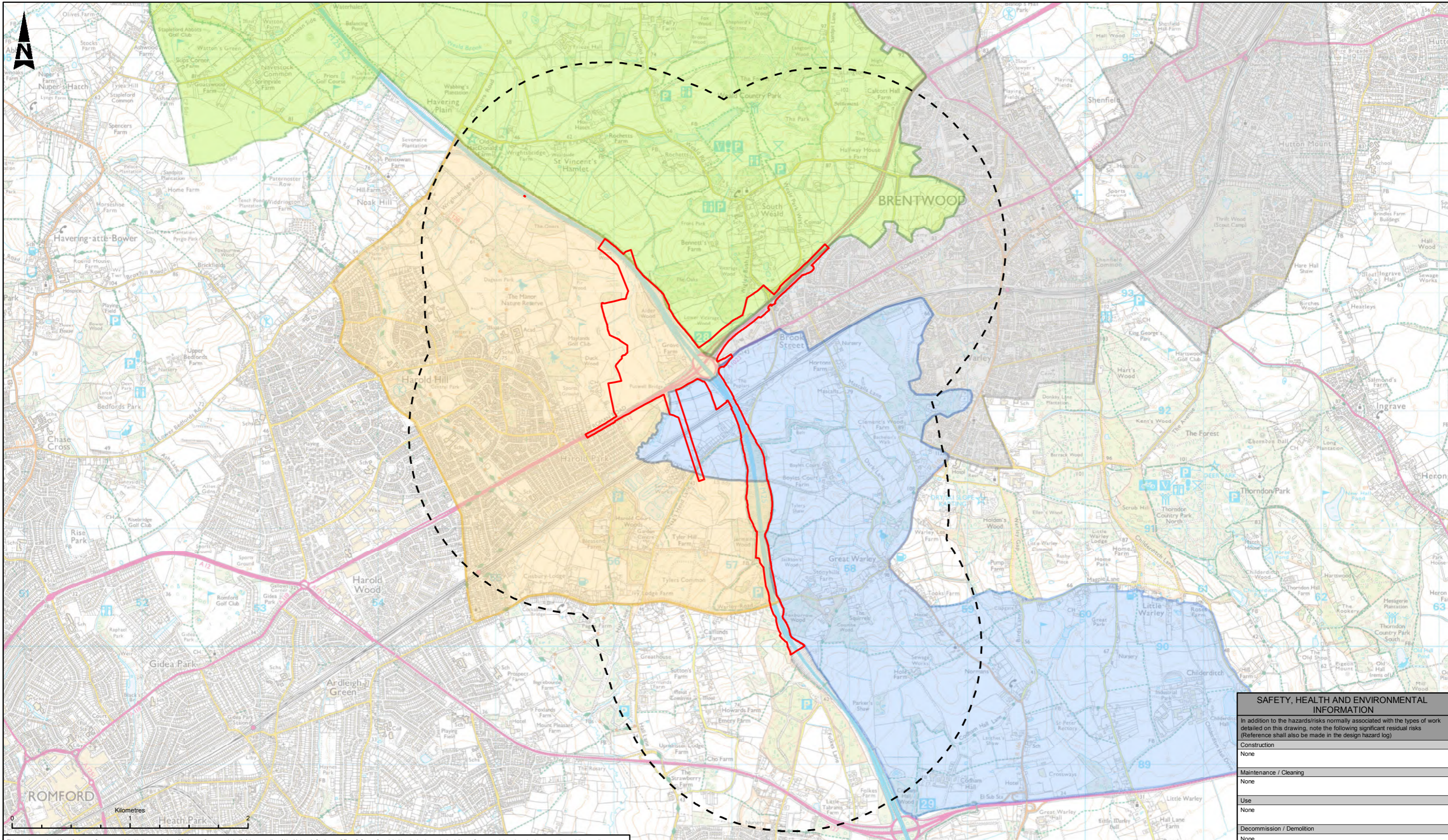
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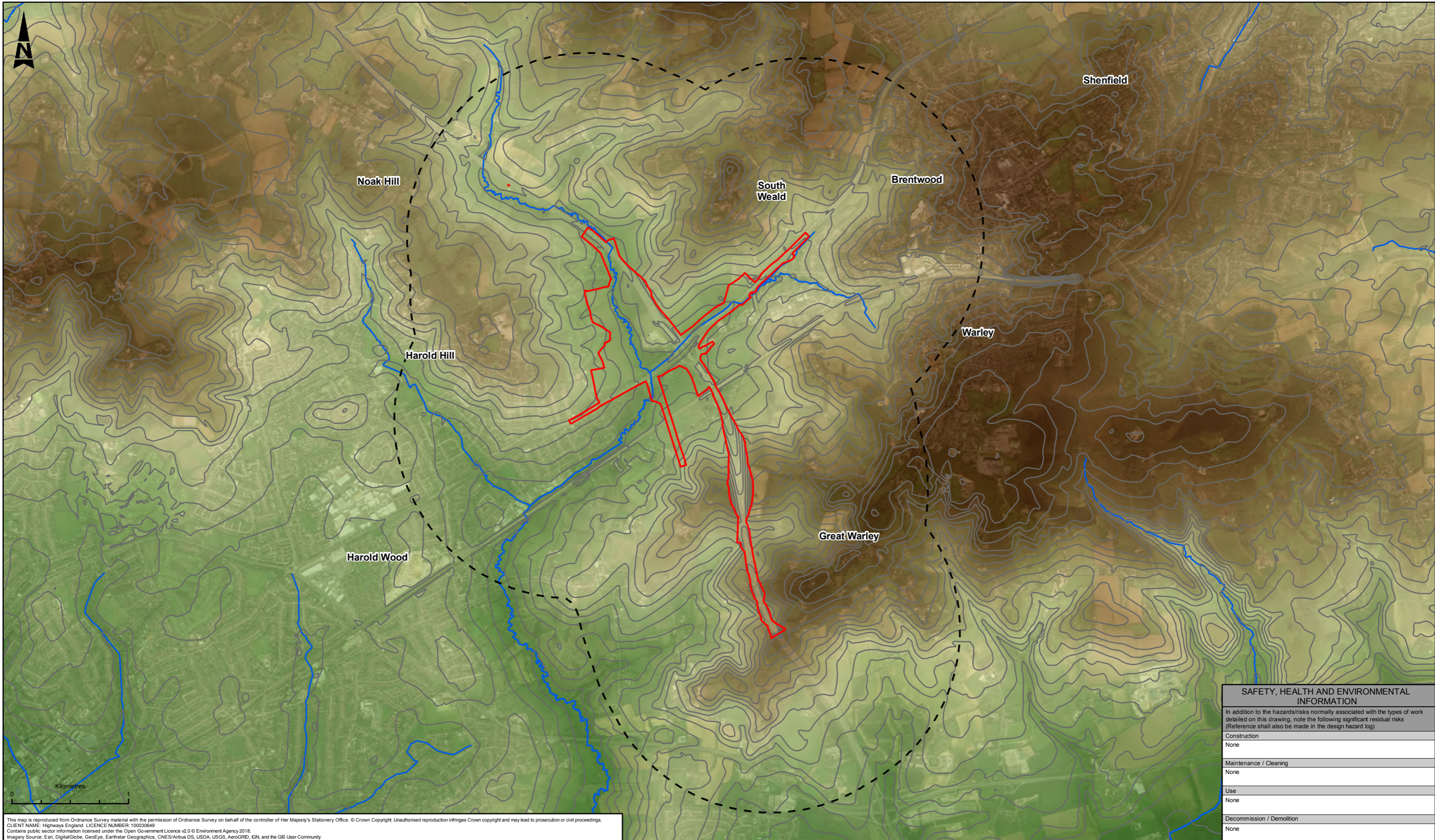
Project Title	ROAD IMPROVEMENT PROGRAMME M25 Junction 28		
Drawing Title	FIGURE F-1 LOCAL DESIGNATIONS		
Drawing Number	Project	Originator	Volume
	HE551519 - ATK - ELS	XX - GS - GI - 000001	
Original Size	Location	Scale	Project Ref. No.
A3		1:30,000	
	Type	Role	Sheet
			1 of 1
	Number	Rev.	
			P01



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND Scheme Boundary 1.5km Study Area Landscape Character Areas Brentwood District Council F13 Great Warley Wooded Farmland F15 Weald Wooded Farmland Urban Character Area Havering London Borough Urban Character Area	<table border="1"> <tr><td>Description</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>Description</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>Description</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>Description</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>Description</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>Description</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	Description							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								Description							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								Description							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								Description							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								Description							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								Description							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								<table border="1"> <tr><td>Drawing Suitability</td><td>PUBLISHED</td><td>Status</td><td>A1</td></tr> <tr><td colspan="2"></td><td colspan="2">Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com</td></tr> <tr><td colspan="2">Member of the SNC-Lavalin Group</td><td colspan="2">Copyright © Atkins Limited (2017)</td></tr> <tr><td colspan="2"></td><td colspan="2">Client</td></tr> </table>	Drawing Suitability	PUBLISHED	Status	A1			Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com		Member of the SNC-Lavalin Group		Copyright © Atkins Limited (2017)				Client		<table border="1"> <tr><td>Project Title</td><td>ROAD IMPROVEMENT PROGRAMME M25 Junction 28</td></tr> <tr><td>Drawing Title</td><td>FIGURE F-2 LANDSCAPE CHARACTER</td></tr> <tr><td>Drawing Number</td><td>Project Originator Volume HE551519 - ATK - ELS XX - GS - GI - 000002</td></tr> <tr><td>Original Size</td><td>A3</td></tr> <tr><td>Scale</td><td>1:30,000</td></tr> <tr><td>Project Ref. No.</td><td>---</td></tr> <tr><td>Sheet</td><td>1 of 1</td></tr> <tr><td>Rev.</td><td>P01</td></tr> </table>	Project Title	ROAD IMPROVEMENT PROGRAMME M25 Junction 28	Drawing Title	FIGURE F-2 LANDSCAPE CHARACTER	Drawing Number	Project Originator Volume HE551519 - ATK - ELS XX - GS - GI - 000002	Original Size	A3	Scale	1:30,000	Project Ref. No.	---	Sheet	1 of 1	Rev.	P01
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

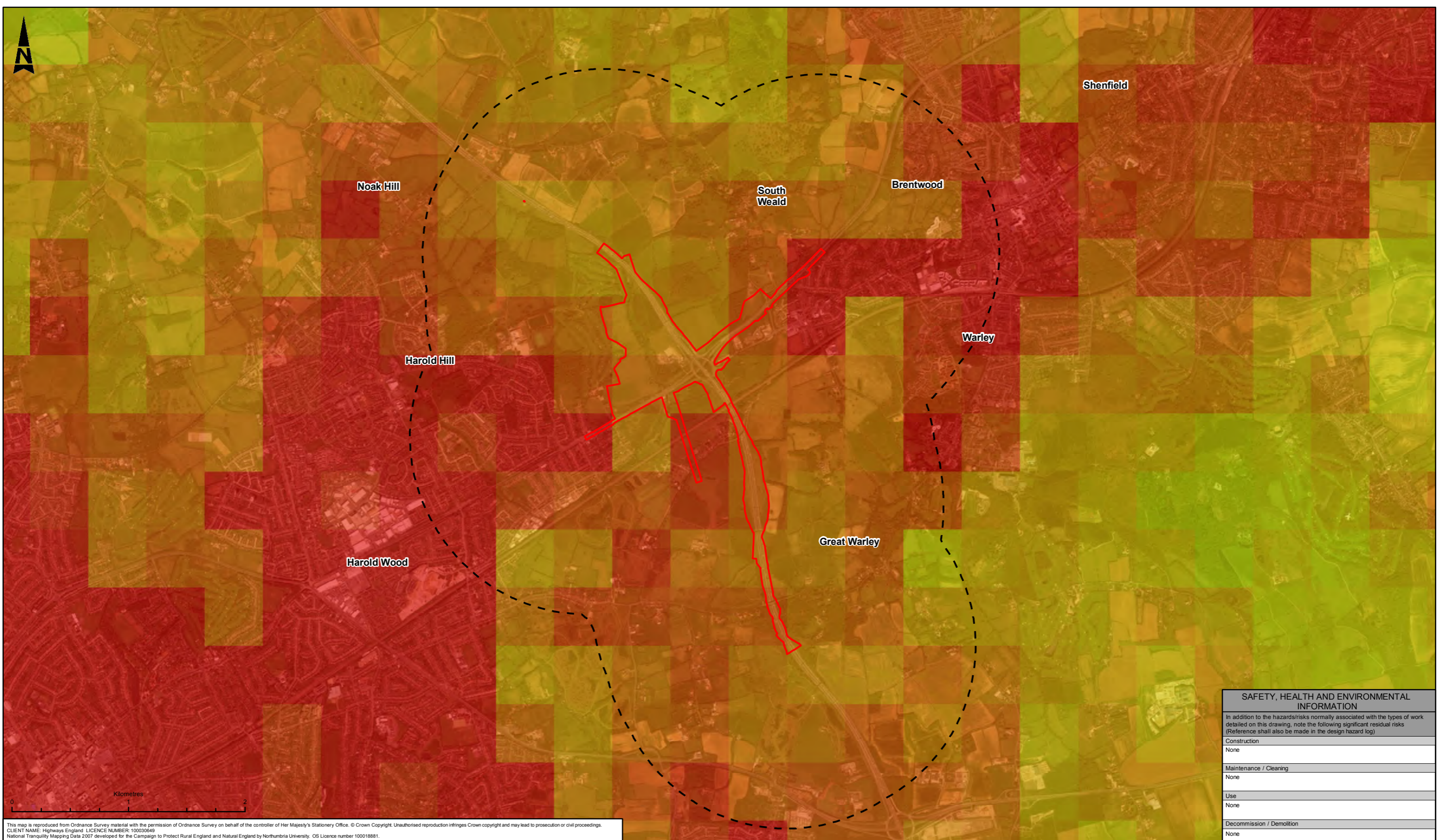
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	Scheme Boundary						
	1.5km Study Area						
	River and Canal Watercourses						
	5m Contours						
Elevation (5 metres DTM)							
	High : 120.62						
	Low : -2.3						

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title		ROAD IMPROVEMENT PROGRAMME M25 Junction 28	
Drawing Title		FIGURE F-3 TOPOGRAPHY	
Drawing Number		HE551519 - ATK - ELS XX - GS - GI - 000003	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND							
	Scheme Boundary						
	1.5km Study Area						
Tranquillity 2006							
Value							
	Most Tranquil						
	Least Tranquil						

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED							

Drawing Suitability: **PUBLISHED**

Status: **A1**

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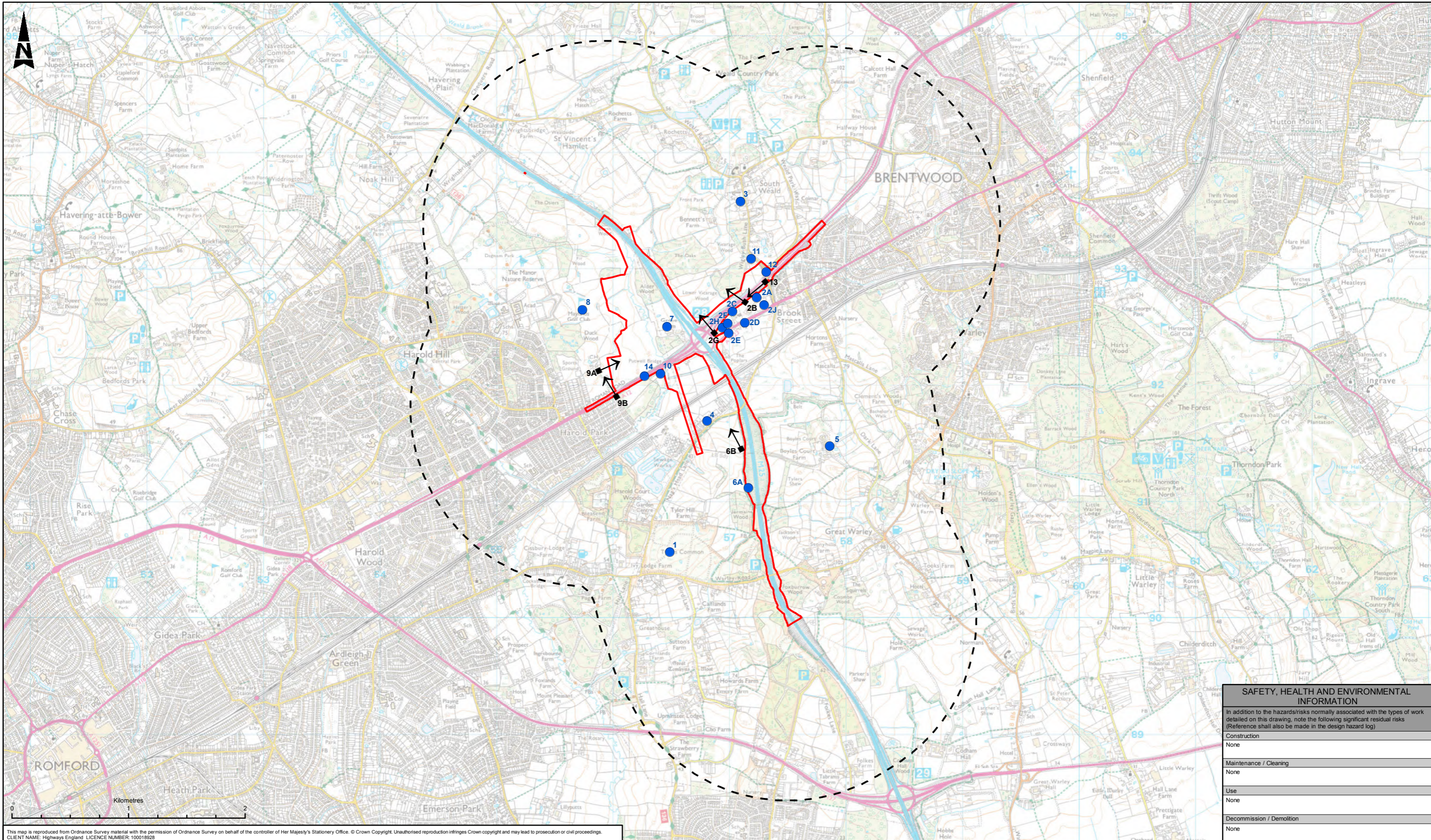
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Project Title		ROAD IMPROVEMENT PROGRAMME M25 Junction 28					
Drawing Title		FIGURE F-4 TRANQUILLITY					
Drawing Number		Project		Originator		Volume	
		HE551519 - ATK - ELS		XX - GS - GI - 000004			
Original Size: A3		Scale: 1:30,000		Project Ref. No: --		Sheet: 1 of 1 Rev: P01	



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LEGEND							
	Scheme Boundary						
	1.5km Study Area						
	Viewpoint Locations						
	Visual Receptor						

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

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Project Title	ROAD IMPROVEMENT PROGRAMME M25 Junction 28		
Drawing Title	FIGURE F-5 VIEWPOINT LOCATION PLAN		
Drawing Number	Project	Originator	Volume
	HE551519 - ATK - ELS	XX - GS - GI - 000005	
Original Size	A3	Scale	1:30,000
		Project Ref. No.	
		Sheet	1 of 1
		Rev.	P01



Viewpoint 2B: Users of Holiday Inn swimming pool and western conference rooms at Brook Street (A1023) to the east of Junction 28



Viewpoint 2G: Users of Shell Garage along Roman Road/A1023 to the east of Junction 28

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

The locations of these photographs are shown on Figure F-5 Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	ROAD IMPROVEMENT PROGRAMME M25 Junction 28
PUBLISHED							
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Description		Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055		FIGURE F-6 PANAROMIC PHOTOGRAPHS & VIEWPOINTS (SHEET 1 OF 3)	
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Description		Client		highways england		Project Originator Volume HE551519 - ATK - ELS XX - GS - GI - 000006	
Description		PUBLISHED		Original Size: A3		Scale: N/A	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Project Ref. No. Role Number Sheet Rev. --- --- 1 of 1 P01
A1	P01	FM	JH	VA	PG	21/11/18	



Viewpoint 6B: Users of Bridleway, section along the M25 corridor south of the junction



Viewpoint 9A: Residents of Maylands cottages

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

The locations of these photographs are shown on Figure F-5 Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED A1 ROAD IMPROVEMENT PROGRAMME M25 Junction 28
Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	ATKINS Member of the SNC-Lavalin Group Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055 www.atkinsglobal.com
Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Copyright © Atkins Limited (2017)
Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Client
Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Drawing Number Project Originator Volume HE551519 - ATK - ELS XX - GS - GI - 000007
Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Original Size: A3 Scale: N/A Project Ref. No.: --- Sheet: 1 of 1 Rev: P01
Description							



Viewpoint 9B: Residents of Harold's Park



Viewpoint 13: Users of NMU's (Non-Motorised User) along Wigley Bush Lane to the east of Junction 28

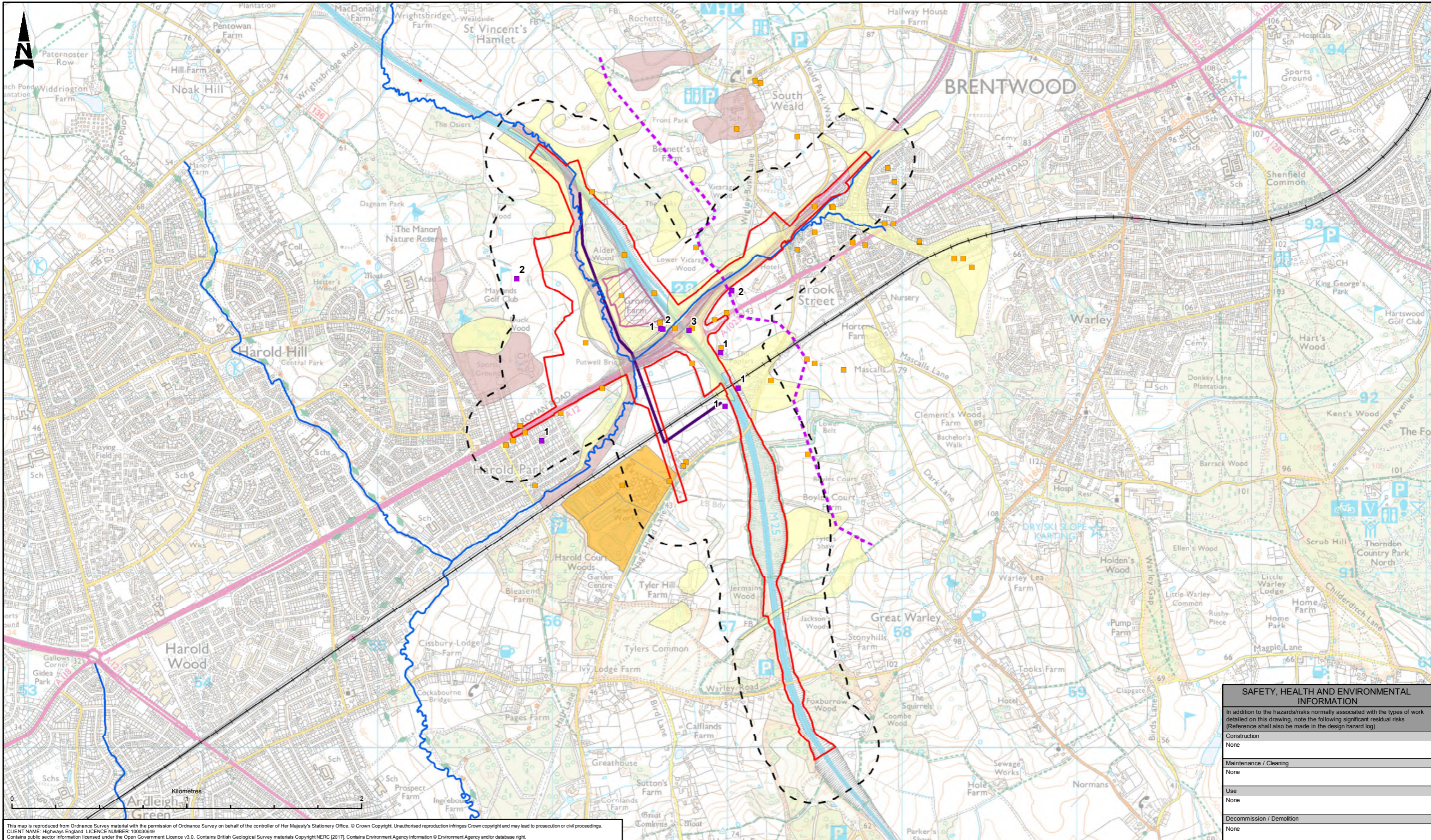
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

The locations of these photographs are shown on Figure F.5 Viewpoint Location Plan

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		ROAD IMPROVEMENT PROGRAMME M25 Junction 28	
Description		ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
PUBLISHED		Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055		FIGURE F-8 PANAROMIC PHOTOGRAPHS & VIEWPOINTS (SHEET 2 OF 3)	
Description		Copyright © Atkins Limited (2017)		www.atkinsglobal.com		Drawing Number	
Description		Client		highways england		Project Originator Volume HE551519 - ATK - ELS XX - GS - GI - 000008	
Description		Status		Location		Original Size	
PUBLISHED		A1		A3		Scale Type Role Number Rev: N/A --- 1 of 1 P01	

10. Geology and Soils

Figure G-1 Sources and Receptors of Potential Land Contamination



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		Sources		Receptors	
	Scheme Boundary		Other Potentially Contaminative Activities and Incidents		1 Human Health: Residents
	250m Study Area		Brook Street Historic Landfill Site		2 Human Health: Nearby Workers
	Rail Line		Superficial Secondary 'A' Aquifer		3 Human Health: Future Site Workers
	Gas Pipeline (approximate)		Superficial Secondary (Undifferentiated)		
	BPA pipeline (approximate)				
	Alignment Option				
	Surface Water Courses				

Description							Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED		A1		ROAD IMPROVEMENT PROGRAMME M25 Junction 28	
Description							ATKINS		Epsom Gateway Ashley Avenue Epsom Surrey KT18 5AL		Drawing Title	
Description							Member of the SNC-Lavalin Group		Tel: +44 (0) 1372 726140 Fax: +44 (0) 1372 740055		FIGURE G-1 GEOLOGY AND SOILS, SOURCES AND RECEPTORS OF POTENTIAL LAND CONTAMINATION	
Description							Copyright © Atkins Limited (2017)		www.atkinsglobal.com		Drawing Number	
Description							Client				Project Originator Volume HE551519 - ATK - EGT XX - GS - GI - 000001	
Description							Client		Original Location Type Role Number Rev A1 P01 SD KB VA PG 21/11/18		Original Size: A3 Scale: 1:20,000 Project Ref. No.: -- Sheet: 1 of 1 Rev: P01	

Project		Originator		Volume	
HE551519 - ATK - EGT		XX - GS - GI - 000001			
Original Size: A3	Scale: 1:20,000	Project Ref. No.: --	Sheet: 1 of 1	Rev: P01	